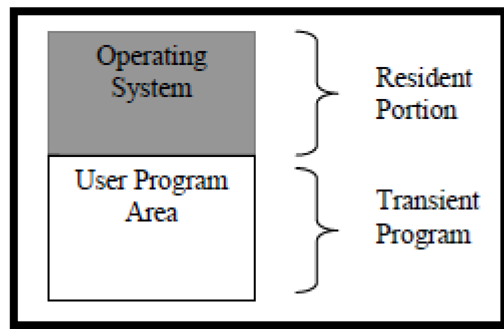
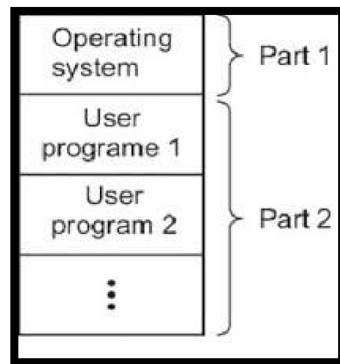
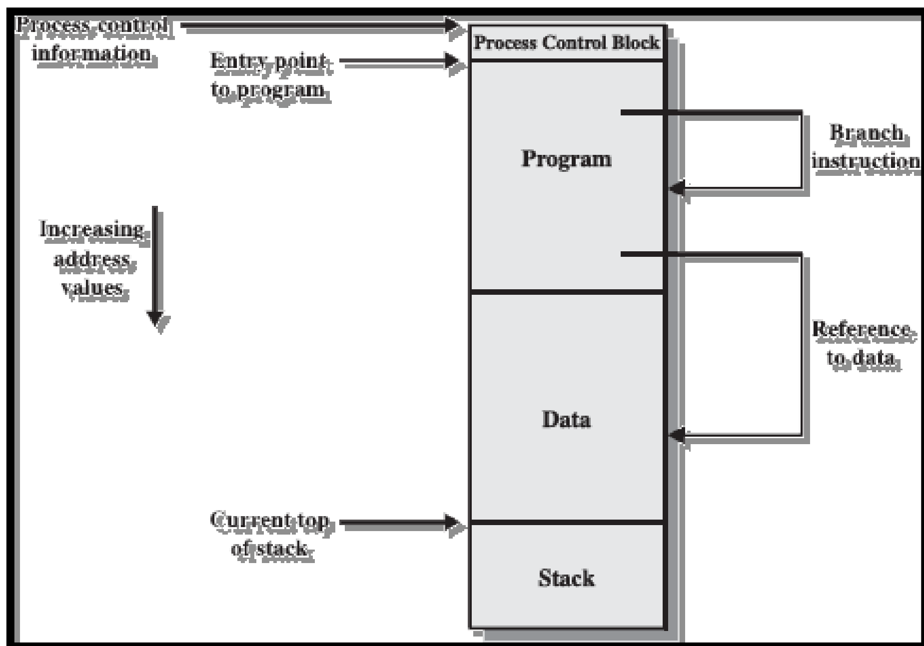
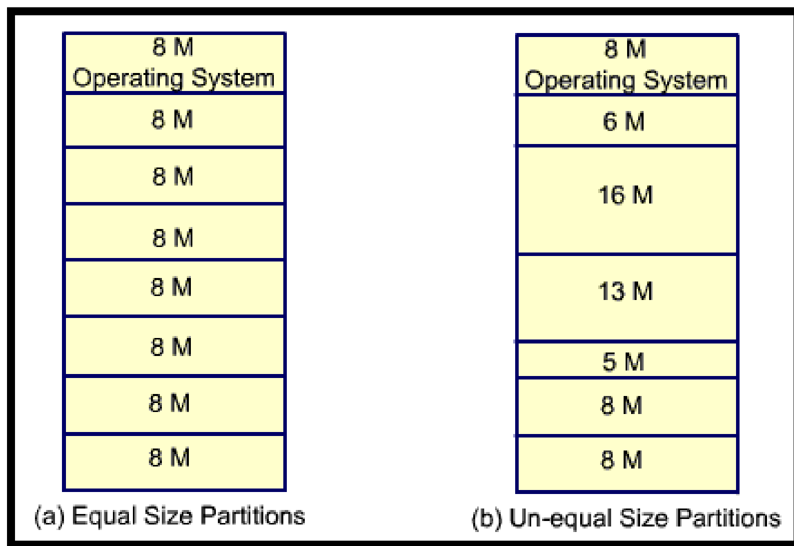
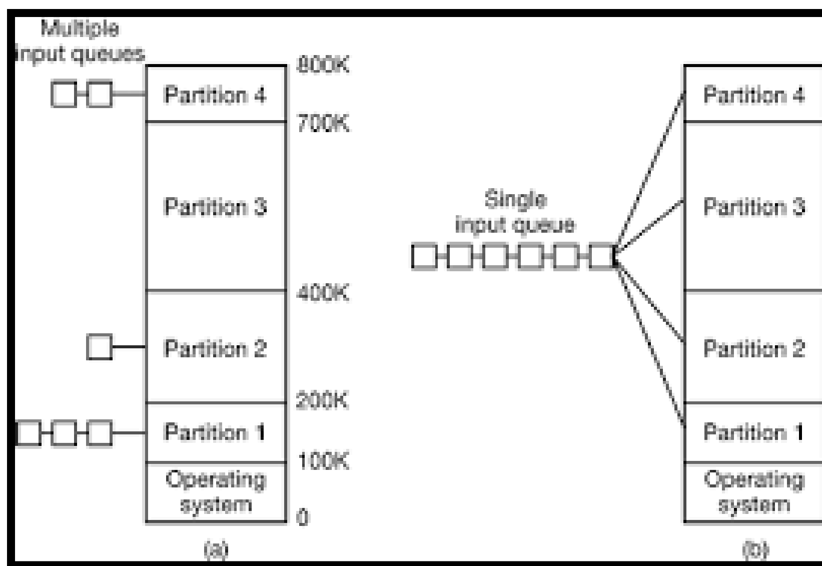
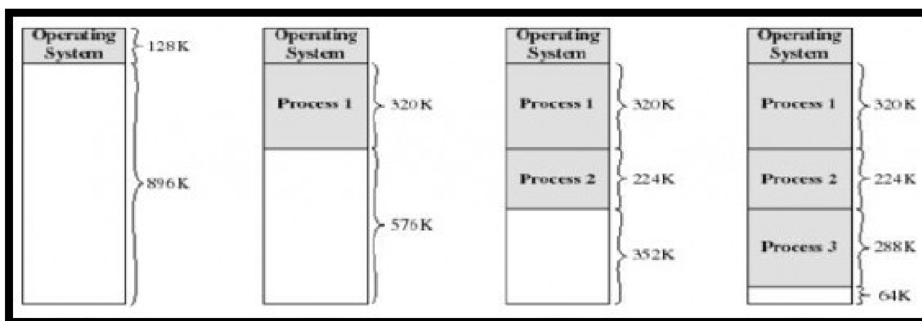

Operating System
User Program Area
Resident Portion
Transient Program

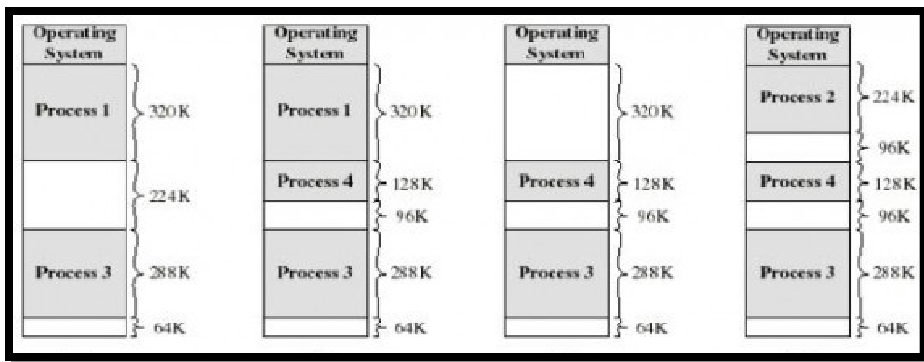

Operating system
User programe 1
User program 2
Part 1
Part 2

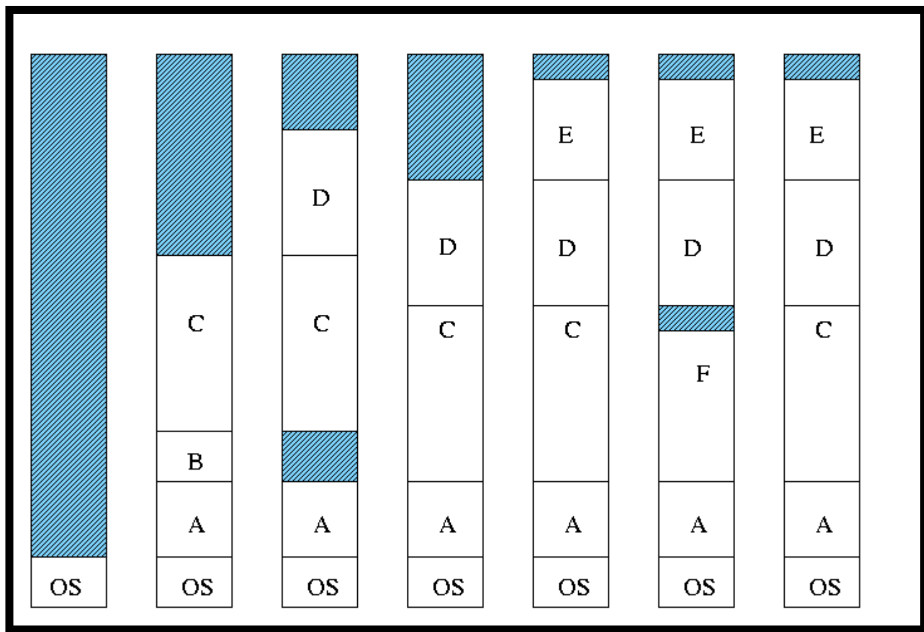

Process control information
Entry point to program
Process Control Block
Program
Branch instruction
Increasing address values
Reference to data
Data
Current top of stack
Stack


8 M
Operating System
8 M
8 M
8 M
8 M
8 M
8 M
8 M
(a) Equal Size Partitions
8 M
Operating System
6 M
16 M
13 M
5 M
8 M
8 M
(b) Un-equal Size Partitions


Multiple
input queues
Partition 4
Partition 3
Partition 2
Partition 1
Operating
system
800K
700K
400K
200K
100K
0
(a)
Single
input queue
Partition 4
Partition 3
Partition 2
Partition 1
Operating
system
(b)


Operating
System
128K
896K
Operating
System
Process 1
320K
576K
Operating
System
Process 1
320K
Process 2
224K
352K
Operating
System
Process 1
320K
Process 2
224K
Process 3
288K
64K


Operating System
Process 1
320K
224K
Process 3
288K
64K
Operating System
Process 1
320K
Process 4
128K
96K
Process 3
288K
64K
Operating System
320K
Process 4
128K
96K
Process 3
288K
64K
Operating System
Process 2
224K
96K
Process 4
128K
96K
Process 3
288K
64K


OS
C
B
A
OS
D
C
A
OS
D
C
A
OS
E
D
C
A
OS
E
D
F
A
OS
E
D
C
A
OS